

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4700/3	<b>FOR FURTHER ACTION</b>	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US01/02224	International filing date ( <i>day/month/year</i> ) 22 JANUARY 2001	(Earliest) Priority Date ( <i>day/month/year</i> ) 21 JANUARY 2000
Applicant SORCERON, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
  - contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (See Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 3

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Systems and methods are presented that allow the efficient distribution of rich media to clients (336) by maximizing the use of available bandwidth and client processing capabilities. A rich media presentation is divided into discrete components, and a producer of presentation specifies how a presentation is to be assembled and where resources needed for the presentation are to be found. This information is packaged into a data structure and sent to clients (336). Clients (336) use this data structure to retrieve the necessary resources for the presentation. Producers are able to prioritize the particular resources that form part of the ultimate presentation according to their importance in the presentation, and clients (336) can retrieve the resources most suitable for their capabilities, including processing power, graphics production speed, and bandwidth. A benchmarker routine running on the client (336) helps identify these capabilities just before retrieval of the presentation components, to more closely assess the conditions under which the client (336) will retrieve, assemble and present the desired show.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/02224

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G06F 15/16

US CL : 709/201., 218, 226, 231

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 709/201., 218, 226, 231

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN: bandwidth video, camera, crop, mat, angle view, table, packet, missing

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,951,694 A (CHOQUIER et al.) 14 September 1999, abstract	1-28
Y	US 5,958,012 A (BATTAT et al.) 28 September 1999, abstract	1-28
A	US 5,719,854 A (CHOWDHURY et al.) 17 February 1998, abstract	1-28
A	US 5,905,877 A (GUTHRIE et al.) 18 May 1999, abstract	1-28
Y	US 5,850,352 A (MOEZZI et al.) 15 December 1998, abstract	29-44
Y	US 5,956,039 A (WOODS et al.) 21 September 1999, abstract	29-44

 Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*E* earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means		
*P* document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

23 APRIL 2001

Date of mailing of the international search report

31 MAY 2001

Name and mailing address of the ISA/US  
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/02224

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,084,979 A (KANADE et al.) 04 July 2000, abstract	29-44
Y, P	US 6,029,175 A (CHOW et al.) 22 February 2000, abstract	1-28, 45-59
Y, P	US 6,047,323 A (KRAUSE) 04 April 2000, abstract	1-28, 45-59
A	US 5,805,804 A (LAURSEN et al.) 08 September 1998, abstract	45-59
Y	US 5,949,772 A (SUGIKAWA et al.) 07 September 1999, abstract	45-69
Y	US 5,999,940 A (RANGER) 07 December 1999, abstract	45-69
Y, P	US 6,073,250 A (LUBY et al.) 06 June 2000, abstract	60-81
Y, P	US 6,081,909 a (LUBY et al.) 27 June 2000, abstract	60-81
Y, P	US 6,081,918 A (SPIELMAM) 27 June 2000, abstract	60-81

**BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING**

This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-29, are drawn to production process that depends on bandwidth and a visual of the network.

Group II, claim(s) 29-44, are drawn to camera position data in a video stream.

Group III, claim(s) 45-59, are drawn to determining which server to use with a table of servers.

Group IV, claim(s) 60-81, are drawn to resending a missing packet from a sequence based on time.

The inventions listed as Groups I-IV do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I involves presentation selection based on bandwidth while Group II involves camera location in a video stream while Group III involves selection of a server, and lastly, Group IV involves a determination of how to resend a missing packet in a sequence.